

DESCRIPTION

METHOD OF PRODUCTION OF A MEAT PRODUCT CONTAINING OLIVE OIL

The present invention involves the production of goods based on meat with the main features:

1. use of olive oil instead of the usual practical addition of animal fat (fatty tissue)
2. use of thin bonny muscular tissue (meat)
- 5 3. addition of special subsidiary material
4. help of appropriate technological procedures and process that are developed aiming at:
 - obtainment of solid emulsion – meat-paste of firm structure, apt to
10 undergo any suitable caloric process, with further target the
embodiment and firm connection of olive oil and after the coagulation
of the proteins in the main system of the emulsion that consists of
proteins / water / olive oil.
 - the obtainment of the maximum possible maintenance of organic-
15 receptive, scenic-chemical and nutrient features of the differentiation
determinant **Olive Oil**.

The cooked pork meats of contracted meat constitute a structural «emulsion» with the participation of essential ingredients of the proteins of the meat, water (of the meat +
20 additional water) and additional fat (pork fatty tissue).

The stability of the «emulsion» depends mainly, among others, on the connective ability of used meat to retain water and to digest the additional fat.

25 Especially the muscular proteins and the salt-solvents (actinia, myosin and actomyosin) that represent the main part of (approximately 60%) of the muscular occiputs, contribute to the stability of the «emulsion», as in their hydrated condition function as a protective frame of the embodied fat, which is the non-continuing phase of the emulsion and the main factor of their non-stabilization.

30 The obtainment of stabilized embodiment of the fat (fat-orbs) in the «emulsion» constitutes a technological target of this invention that is faced with known combined techniques, which affect positively to this direction and include the adjustment of the parameters, such as the specific selection of meat, the regulation of PH of the meat,
35 the quantity of additional salt, the use of subsidiary technology, the conditions of process – creation of meat-paste –, the timetable of caloric process and freezing of the final product, etc.

40 Nevertheless, the embodiment of olive oil in comparison with the classic addition of pork fat, as long as it is tested with classic techniques, runs into difficulties of instability or created non-stabilized tendencies, not only of the emulsion of meat-paste but also of the final products that usually shows the appearance of «de-oil».

- the creation of the maximum possible embodiment of oil with mechanical process (mixture, similitude of the participated ingredients).
- the estimation of the ideal quantitative relation between these ingredients so that the maximum possible soaking and maintenance of oil in the emulsion at the same time with the maximum possible absorbance of additional water (relation fat / proteins, water of proteins).
- the creation of a stable «waterproof» protein complex round the fat-orbs, without the application of high temperatures for the transformation of the proteins, with the

application of mechanical process under selected conditions with the application of vacuum and temperature in the phase of mixture and degree of assimilation – with the maximum possible spreading and size of fat-orbs.

- 5 In the end, one significant aim is the insurance of a stable behaviour of the emulsion meat-paste in the phases of caloric process, the later freezing of the product, the behavior of the product in a possible cutting and packing in vacuum and during the maintenance in conditions of freezing.
- 10 The aim of the present invention is the production of goods based on meat of caloric process (products of cooked pork meat – sausages – salamis of contracted meat):
- with direct in frost embodiment of olive oil and maximum possible substitution of animal fat
 - with the addition of combined subsidiary technology and
 - 15 • the application of special technological process

This aim is achieved with the mixture of meat of low fat-content in frost with olive oil in combination with the use of vegetable proteins, milk proteins, poli-phosphoric salts, water and salt.

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In this way, the present invention offers pork meats with olive oil and a method for their production with in frost mixture of olive oil, non-fat meat and water.

- Thin-chopped non-fat meat of temperature 0° C is mixed with H₂O of temperature
- 25 –2° C in a machine of mixture with simultaneous addition of salt. Next, we insert poli-phosphoric salts, preservatives and spices. After all these are mixed we add gradually the vegetable proteins, the proteins of milk and starch. When the temperature of the mixture is 2° C we insert the olive oil. The mixture continues with simultaneous application of vacuum 960 mBAR for 3 min, aiming to deduct the closed in the
- 30 mixture oxygen in order to avoid oxidation. The mixture continues until the temperature is 4° C. The entire time of mixture is 15 min. And the absorbing power 26 KW. The mixture then goes to a filling machine where it is encased with simultaneous application of vacuum 1000 mBAR with absorbing power 7 KW and later on, it is
- 35 pasteurized in 71° C. The entire time of caloric process depends on the diameter of the product and ranges from 1 to 3 hours. After the pasteurization, the product is frozen in freezing chambers with temperature of – 2° C up to 2° C.

- The pork meats with olive oil that are produced according to this invention, have an excellent stability as far structure is concerned (compactness) due to the use of thin
- 40 meat, application of low temperatures and their production in vacuum. The scenic-chemical features of olive oil, which these products consist, remain unchangeable, because of the low temperatures, which are enforced during the productive procedure.